



# EMS SYSTEM REPORT

OCTOBER 1, 2014

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## SPECIAL POINTS OF INTEREST:

- Trauma system data facts are in pages 4-6
- ROSC & STEMI information are in pages 7-9
- STROKE program information are in pages 10-12
- EMS Provider Transports are in pages 14-16

## Message from the Director and Medical Director

The 2014 EMS System Data Report provides an excellent opportunity for you our readers to see first-hand the expansion of the EMS Agency's data capabilities. Since last year's report, the number of fire departments utilizing electronic patient care records increased from five to 11, resulting in more timely and accurate data submission from our provider agencies.



Cathy Chidester  
Director

The County's Hospital Specialty Care Center programs continue to submit data that pro-

vides us the opportunity to measure outcomes and integrate our data to ensure that we measure the entire patient care continuum.

The EMS Agency strives to provide data that:

- Improves system transparency, public understanding of emergency medical incidents and the unique characteristics of emergency care delivery in specific areas of the County.
- Is useful to system planners and results in informed public policy.
- Identifies trends in injury and illness within Los Angeles County, identifying patient needs and opportunities for

improving patient outcomes.

- Creates public awareness of the care our Specialty Care Centers provide, thus improving access and utilization of region-



Dr. William Koenig  
Medical Director

alized EMS care.

The EMS System Data Report is a resource to assist with answering system questions and serves as a catalyst for change to improve the health of our community. Please enjoy this year's edition.

## System Demographics

### 72 9-1-1 Receiving Hospitals

- 42 EDAP (Emergency Department Approved for Pediatrics)
- 8 Pediatric Medical Centers
- 6 Pediatric Trauma Centers
- 14 Trauma Centers
- 21 Paramedic Base Hospitals
- 33 STEMI Receiving Centers
- 33 Approved Stroke Centers
- 54 Perinatal Centers
- 40 Hospitals with Neonatal Intensive Care Unit
- 9 SART (Sexual Assault Response Team) Centers
- 13 Disaster Resource Centers

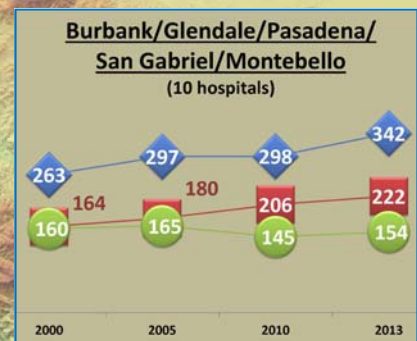
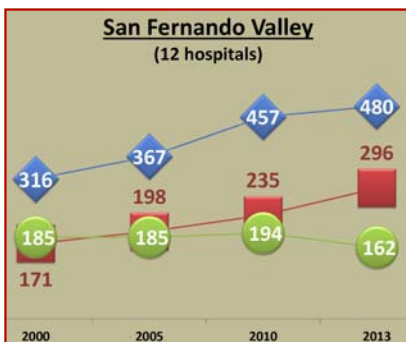
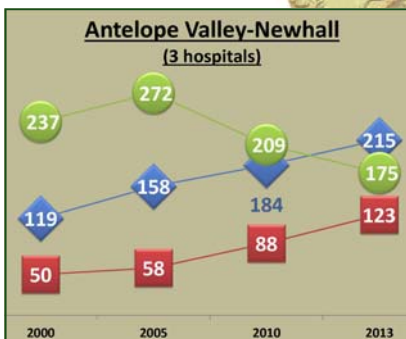
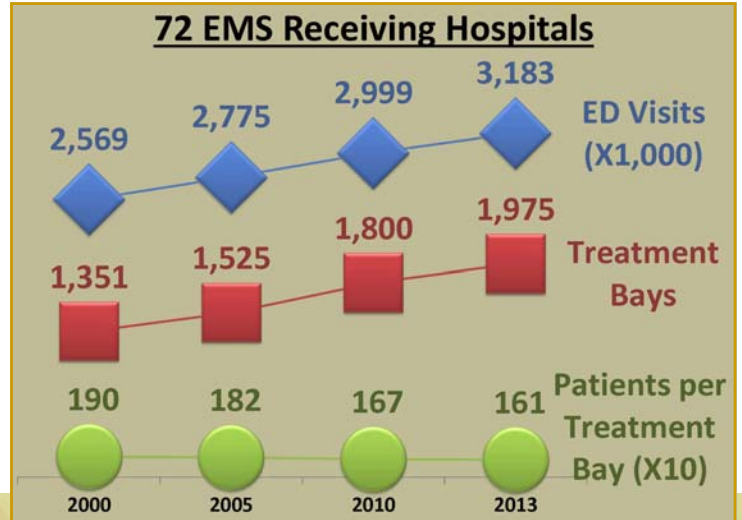
### EMS Provider Agencies

- 32 Public Safety EMS Provider Agency
- 31 Licensed Basic Life Support Ambulance Operators
- 18 Licensed Advanced Life Support Ambulance Operators
- 18 Licensed Critical Care Transport Ambulance Operators
- 13 Licensed Ambulette Operators

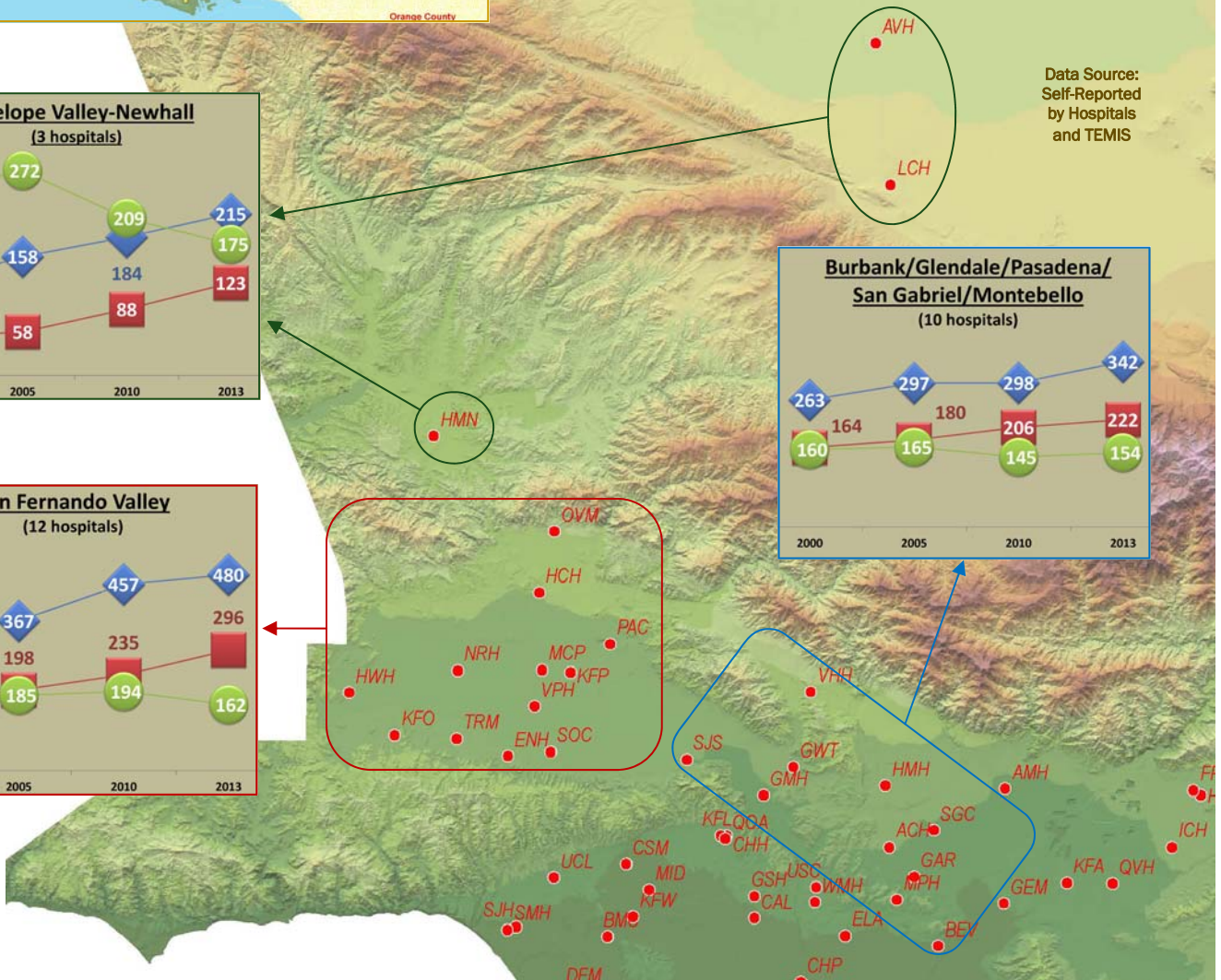
### EMS Practitioners

- 3,786 Accredited Paramedics
- 7,681 Certified EMTs by LA Co EMS Agency
- 805 Certified Mobile Intensive Care Nurses

## Emergency Department Volume



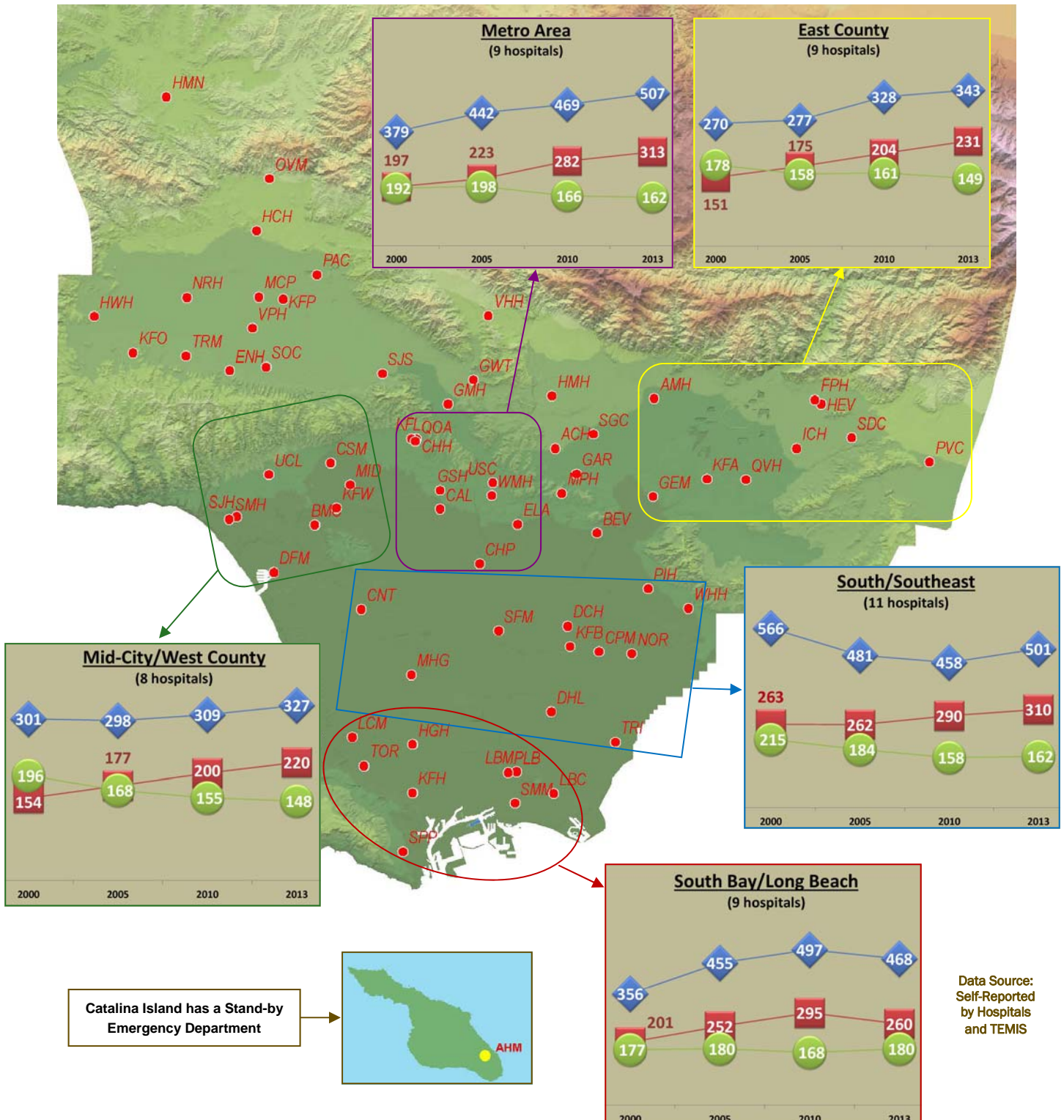
Data Source:  
Self-Reported  
by Hospitals  
and TEMIS



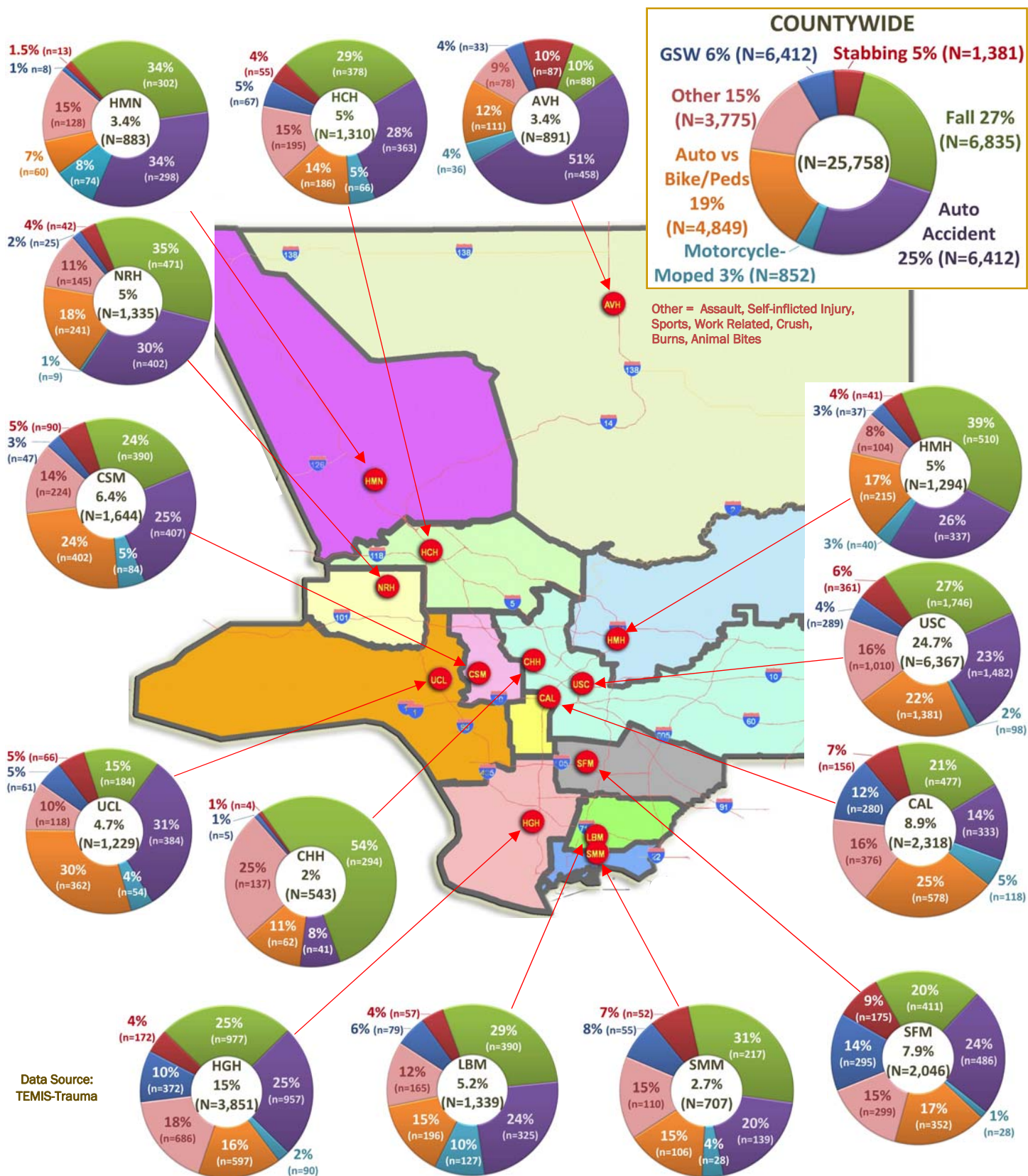


## Emergency Department Volume

◆ ED Visits (X1,000) ■ Treatment Bays ● Patients per Treatment Bay (x10)

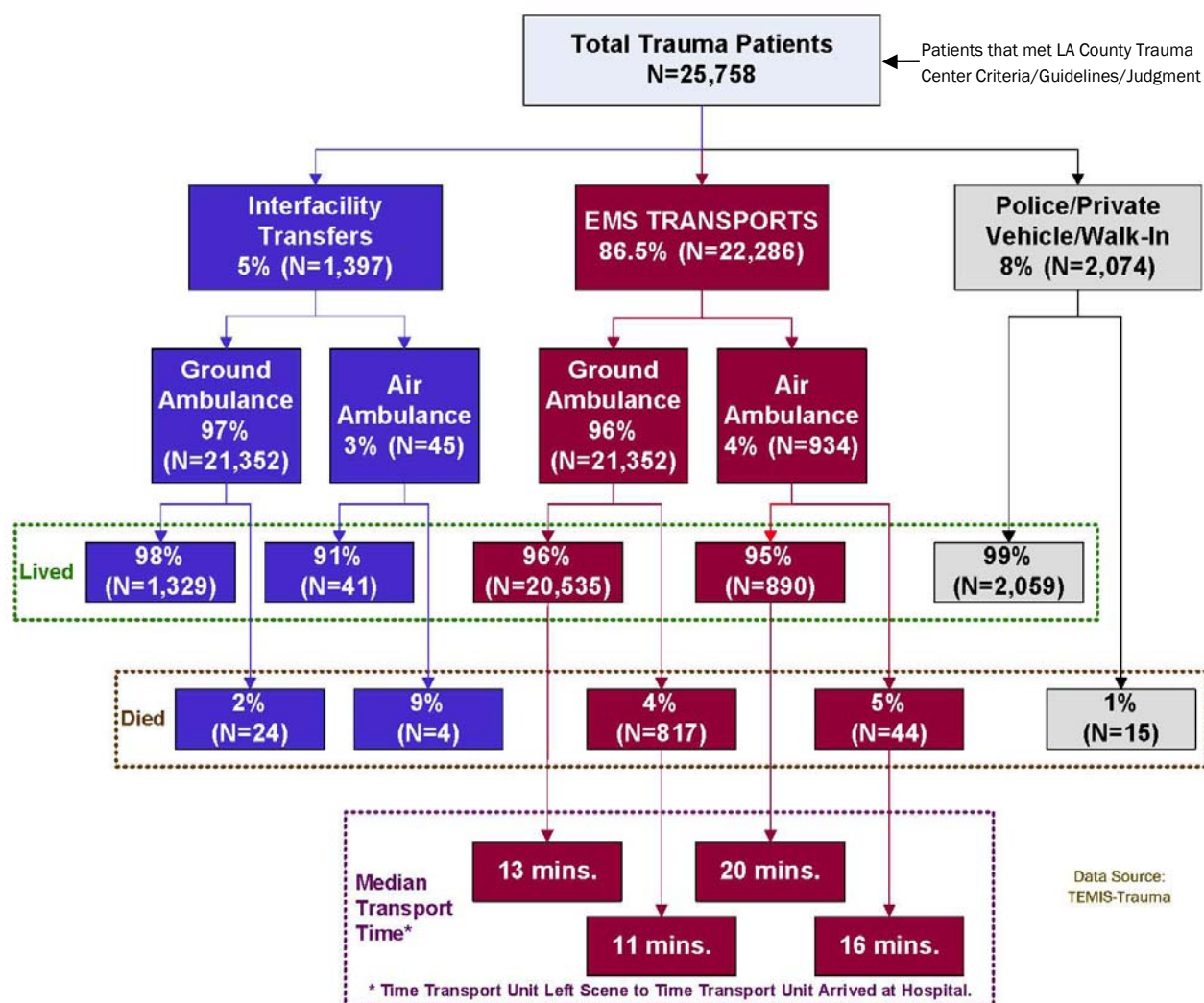


## Mechanism of Injury by Trauma Center Catchment Area (CY 2013)





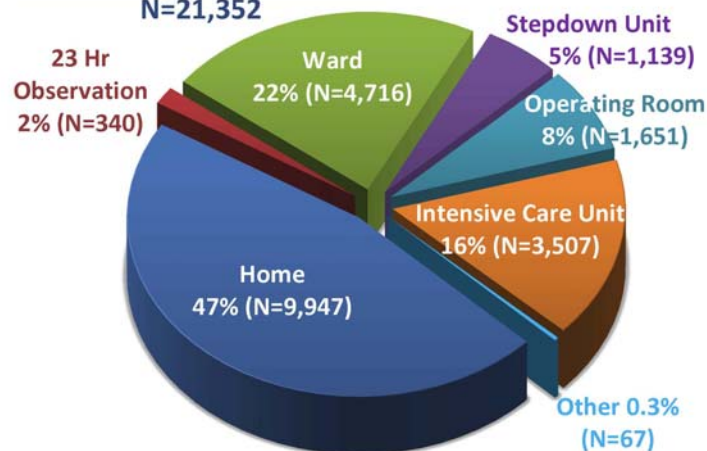
## Mode of Transport / Mortality / Transport Time



## Trauma Patient Emergency Department Disposition

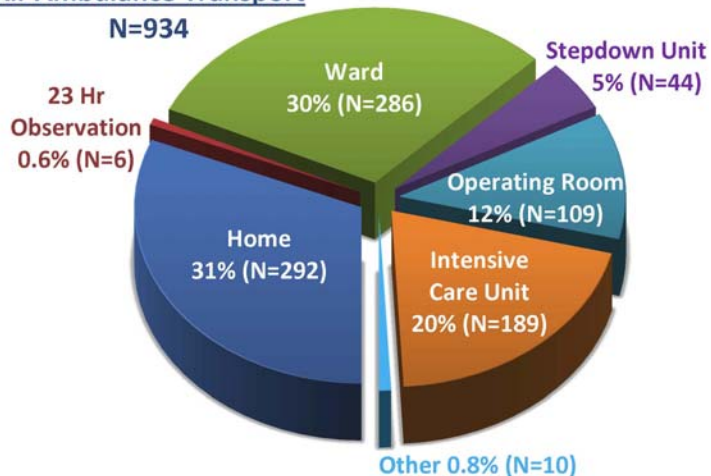
### Ground Ambulance Transport

N=21,352



### Air Ambulance Transport

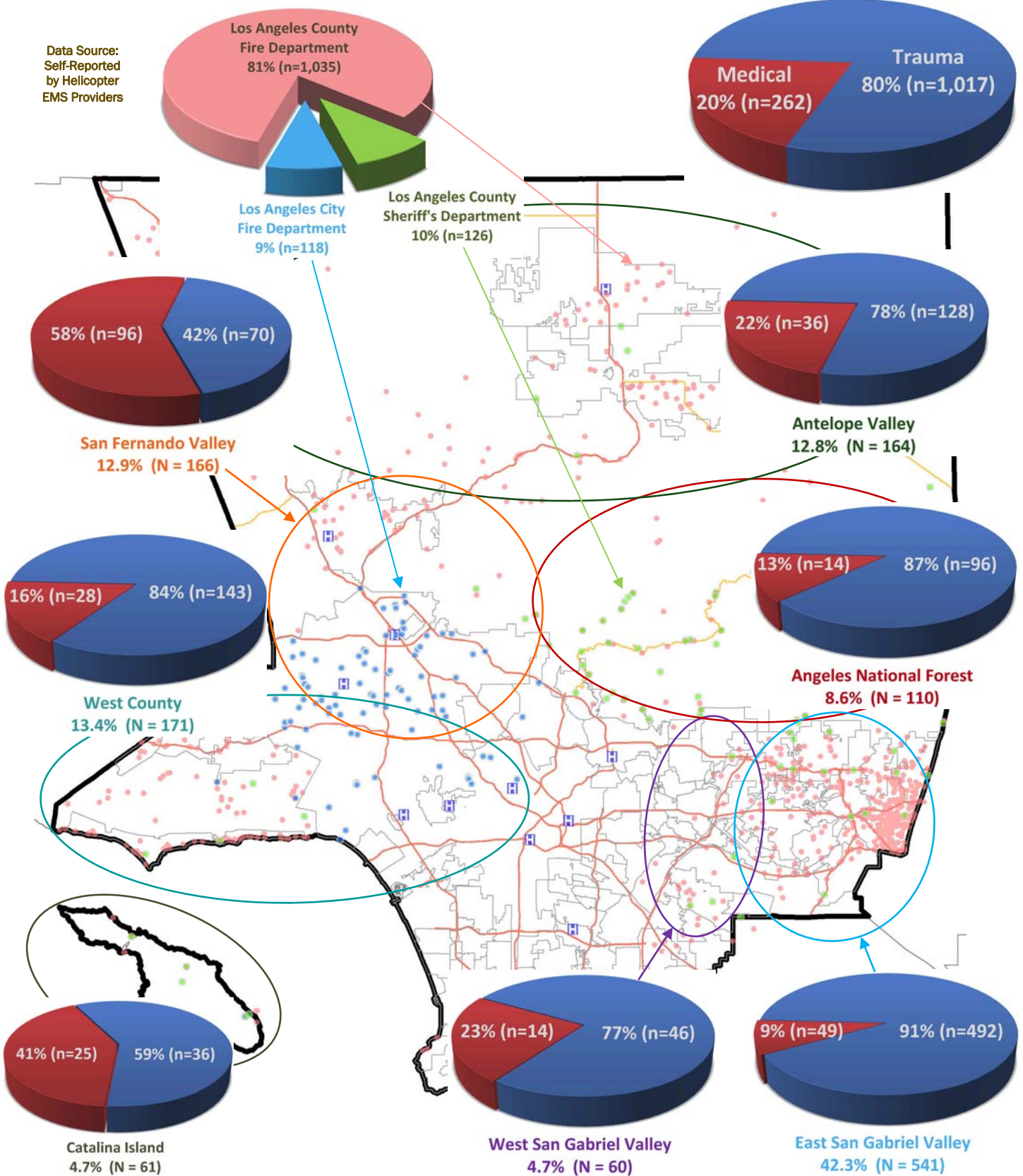
N=934



# Helicopter EMS Transports (CY 2013)

COUNTYWIDE (N = 1,279)

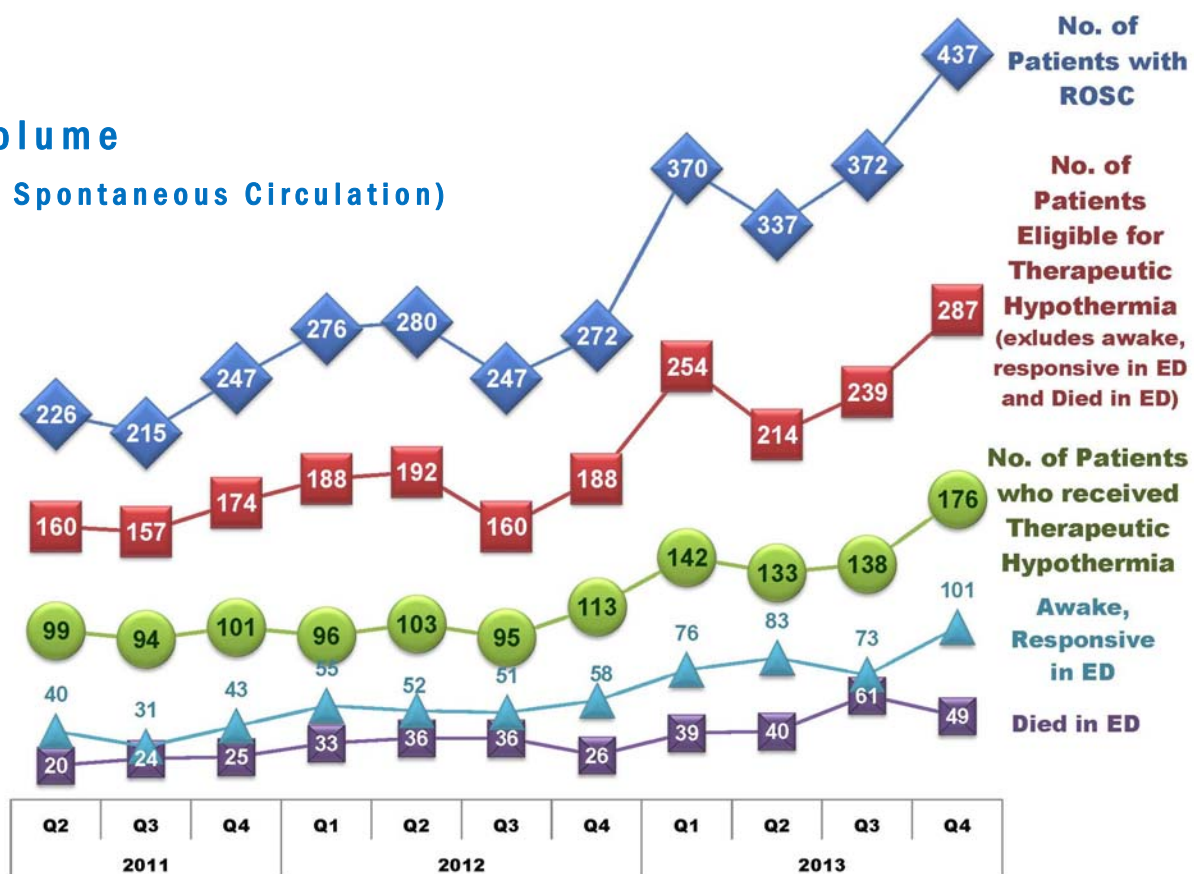
Data Source:  
Self-Reported  
by Helicopter  
EMS Providers



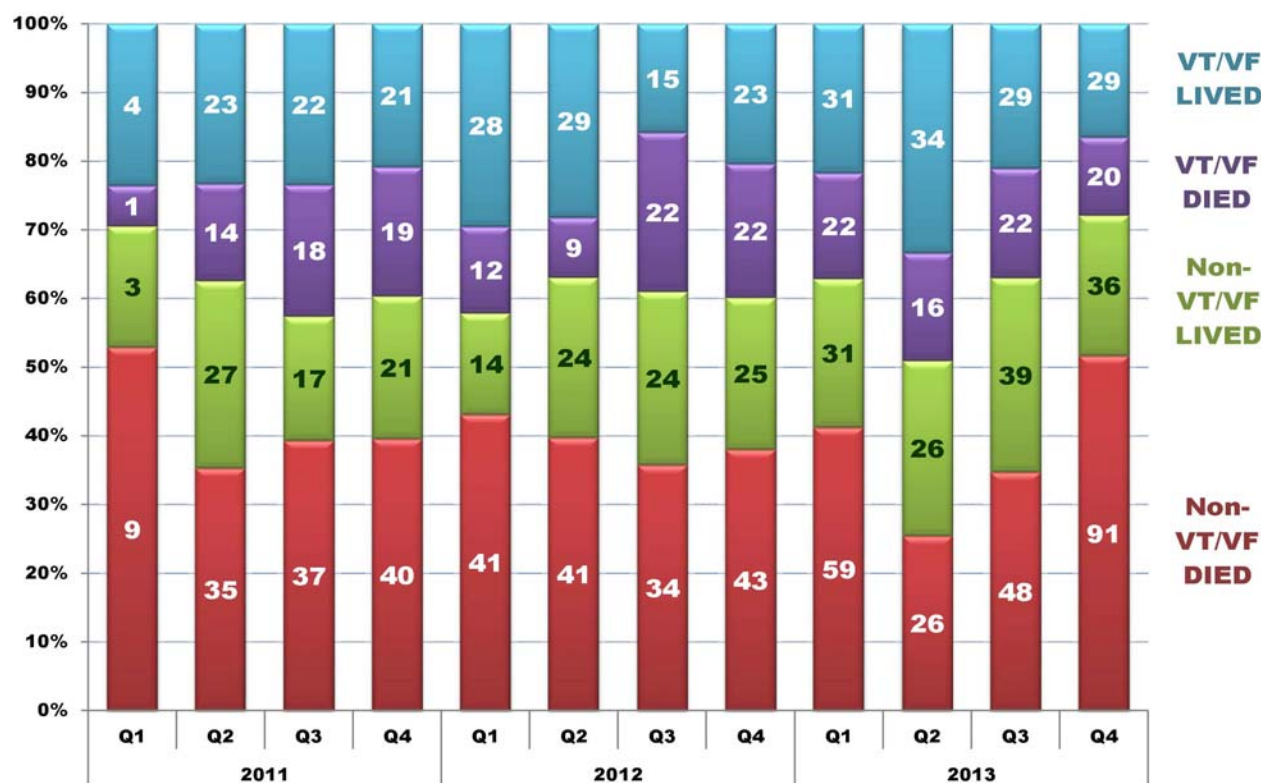


## ROSC Volume

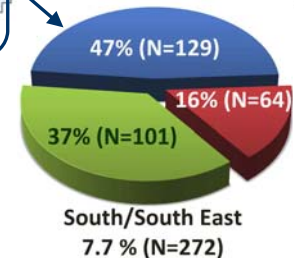
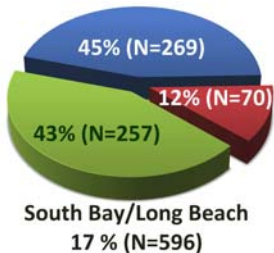
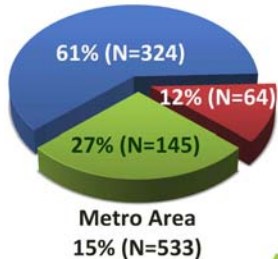
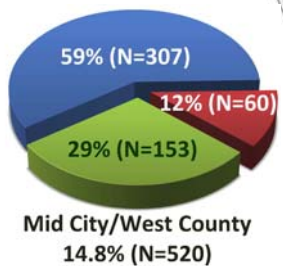
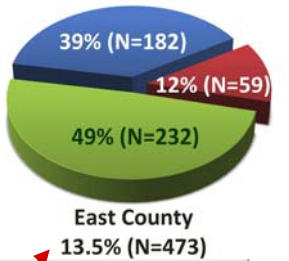
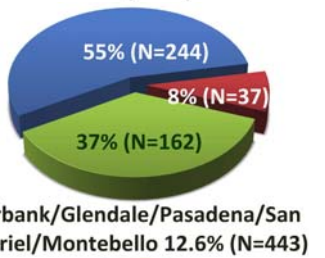
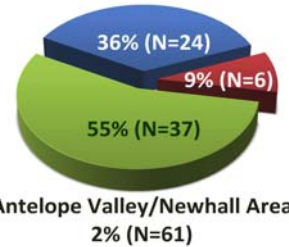
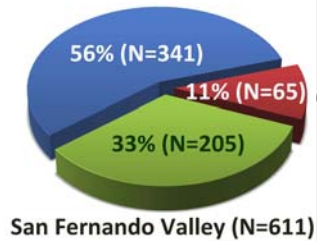
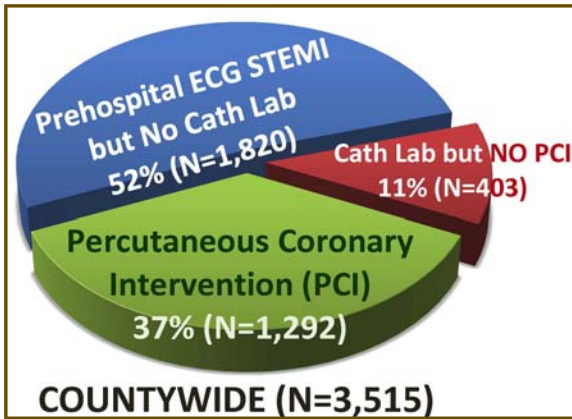
(Return of Spontaneous Circulation)



## ROSC Patients: Received Therapeutic Hypothermia

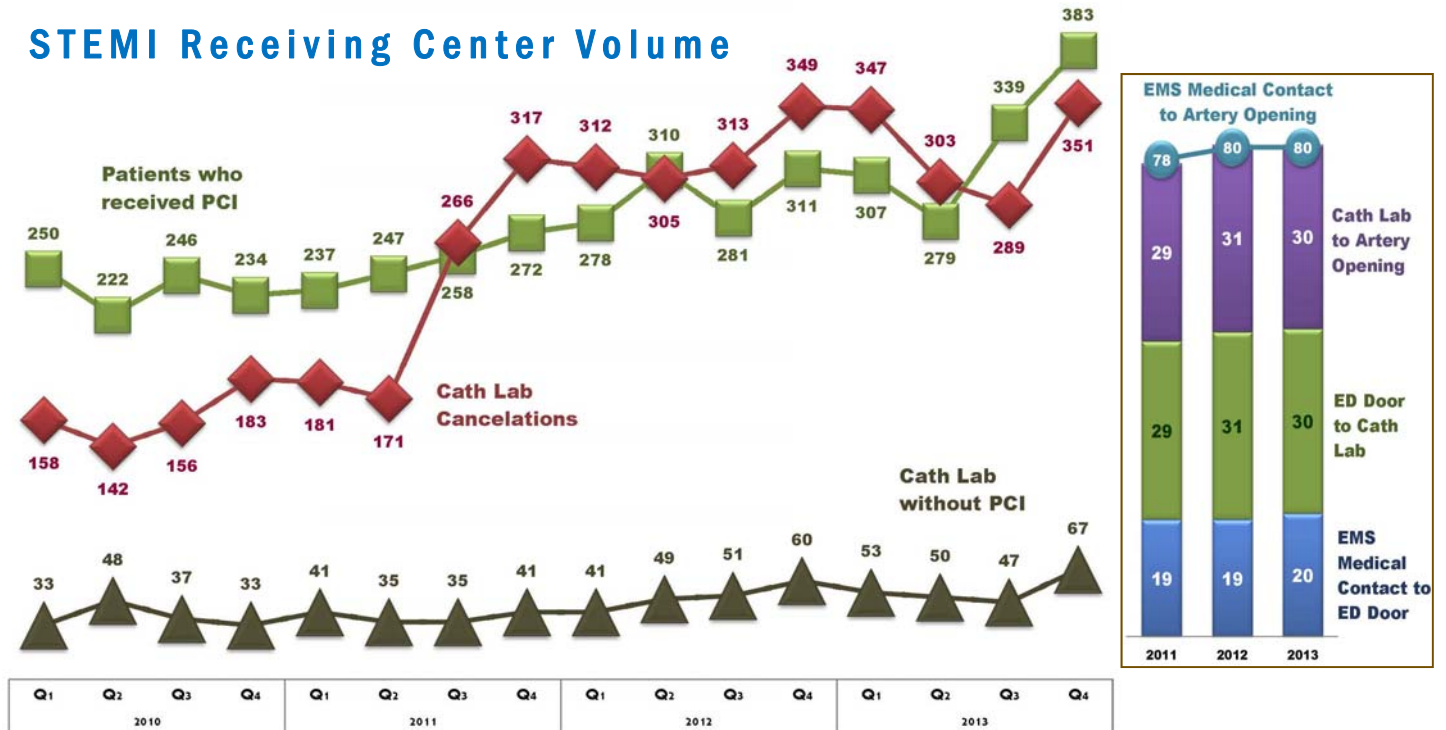


## Prehospital 12-Lead ECG is ST-Segment Elevation Myocardial Infarction (STEMI) and Transported to STEMI Receiving Centers CY 2013





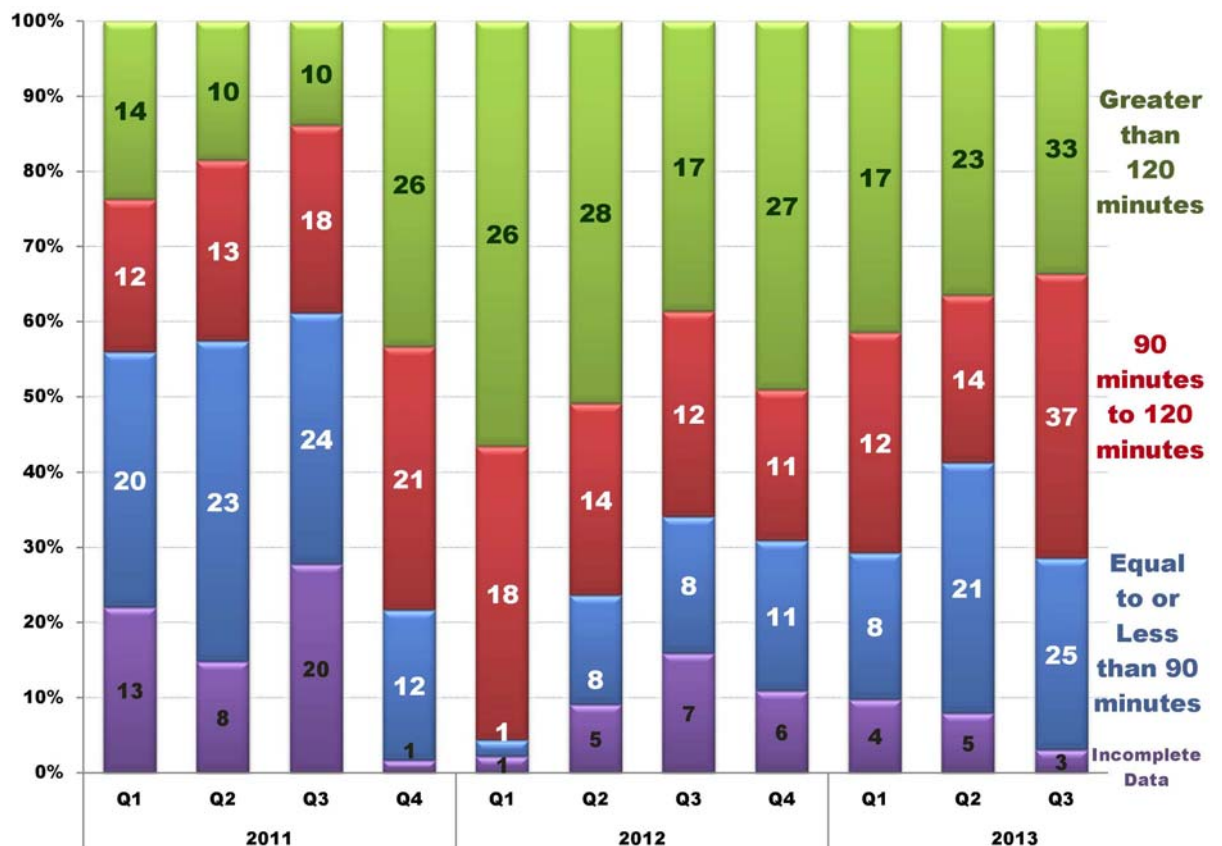
## STEMI Receiving Center Volume



## STEMI Transfers: Arrival at Referral Facility to Artery Opening at STEMI Receiving Center

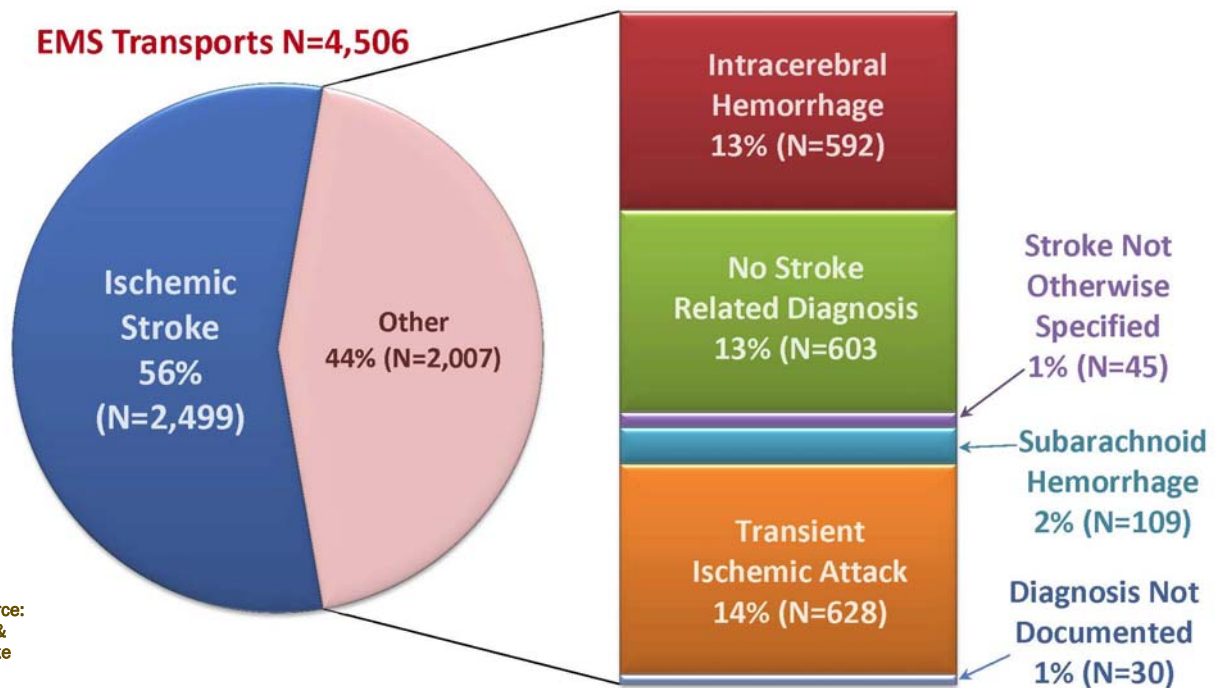
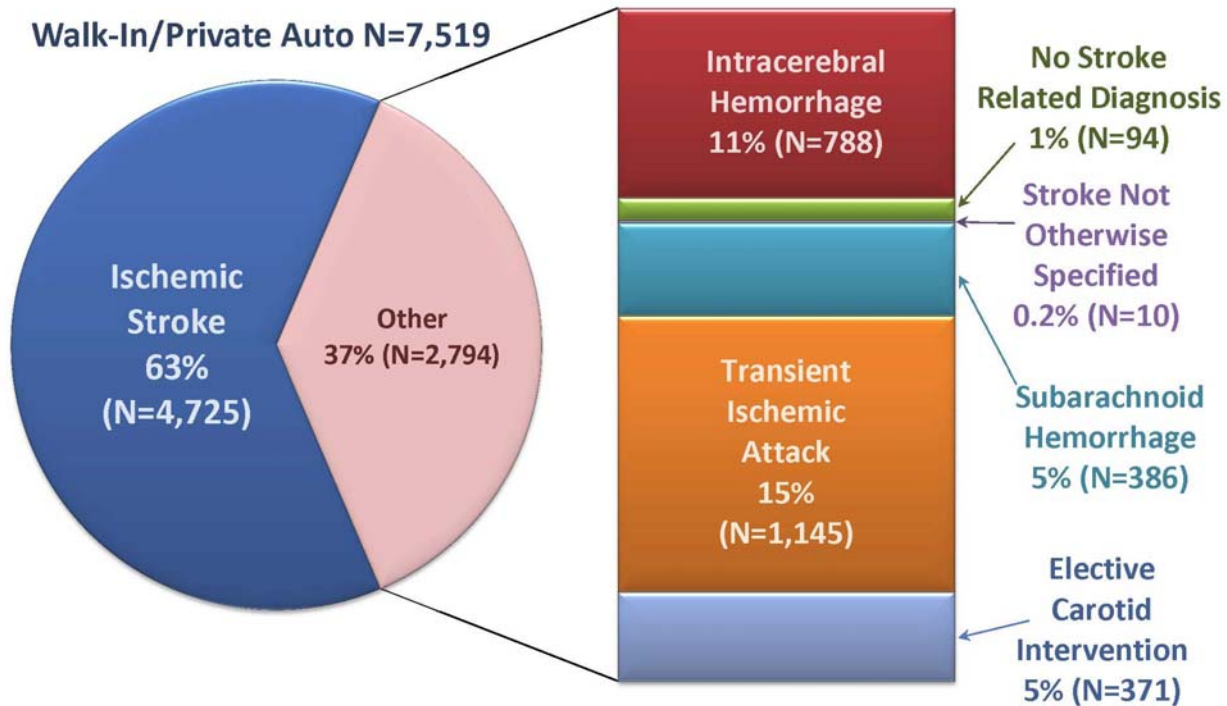


Data Source:  
LA SRC Database





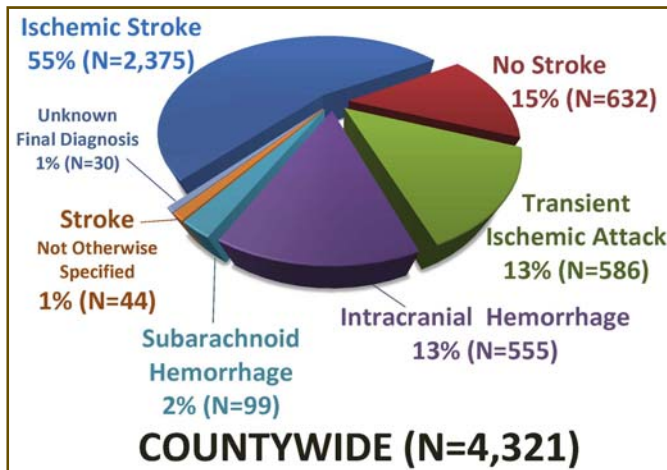
## Approved Stroke Center Patients (CY 2013)



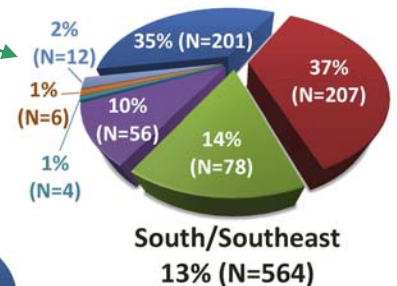
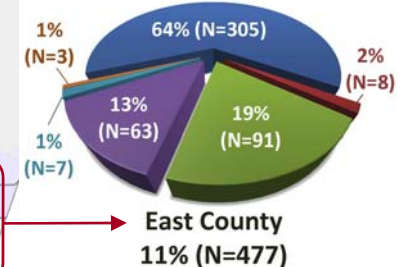
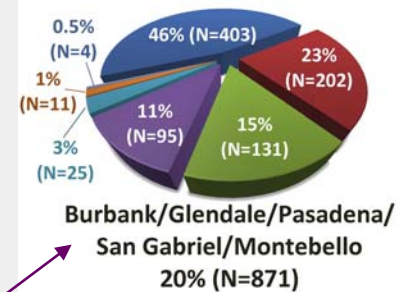
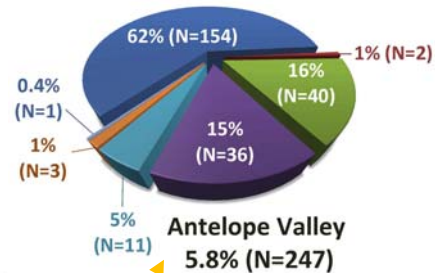
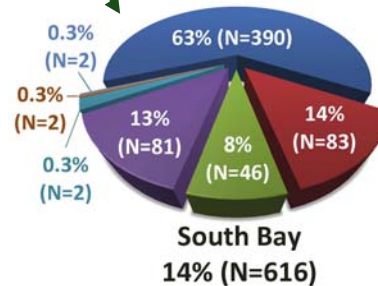
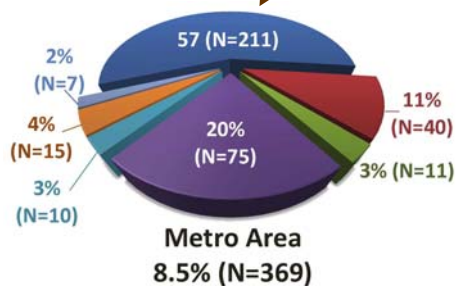
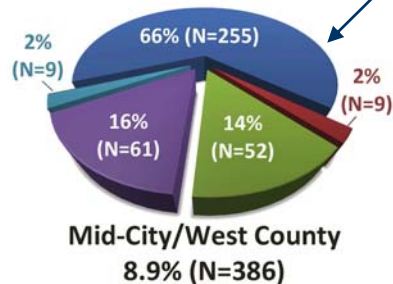
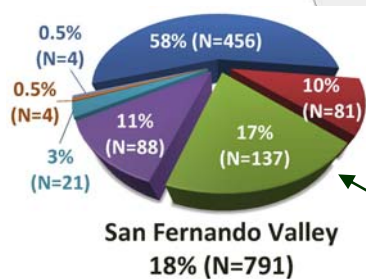
Data Source:  
GWTG &  
LA Stroke



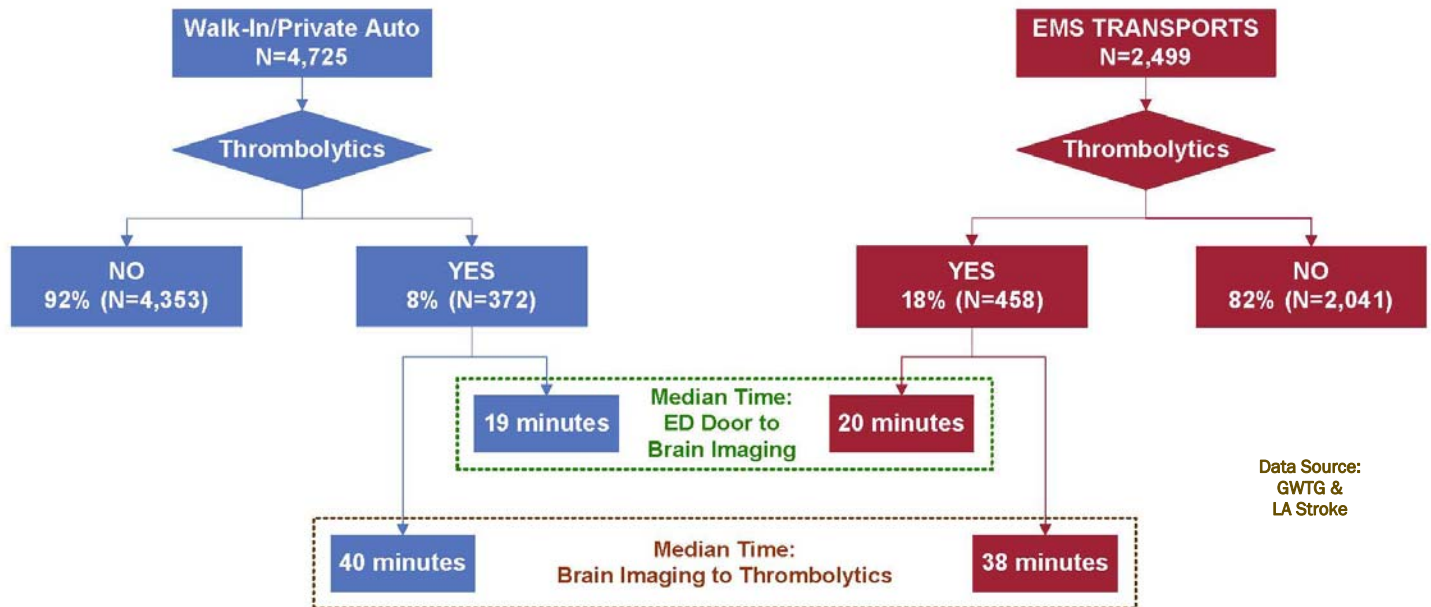
## Final Diagnosis of EMS Transports to Approved Stroke Centers (cy 2013)



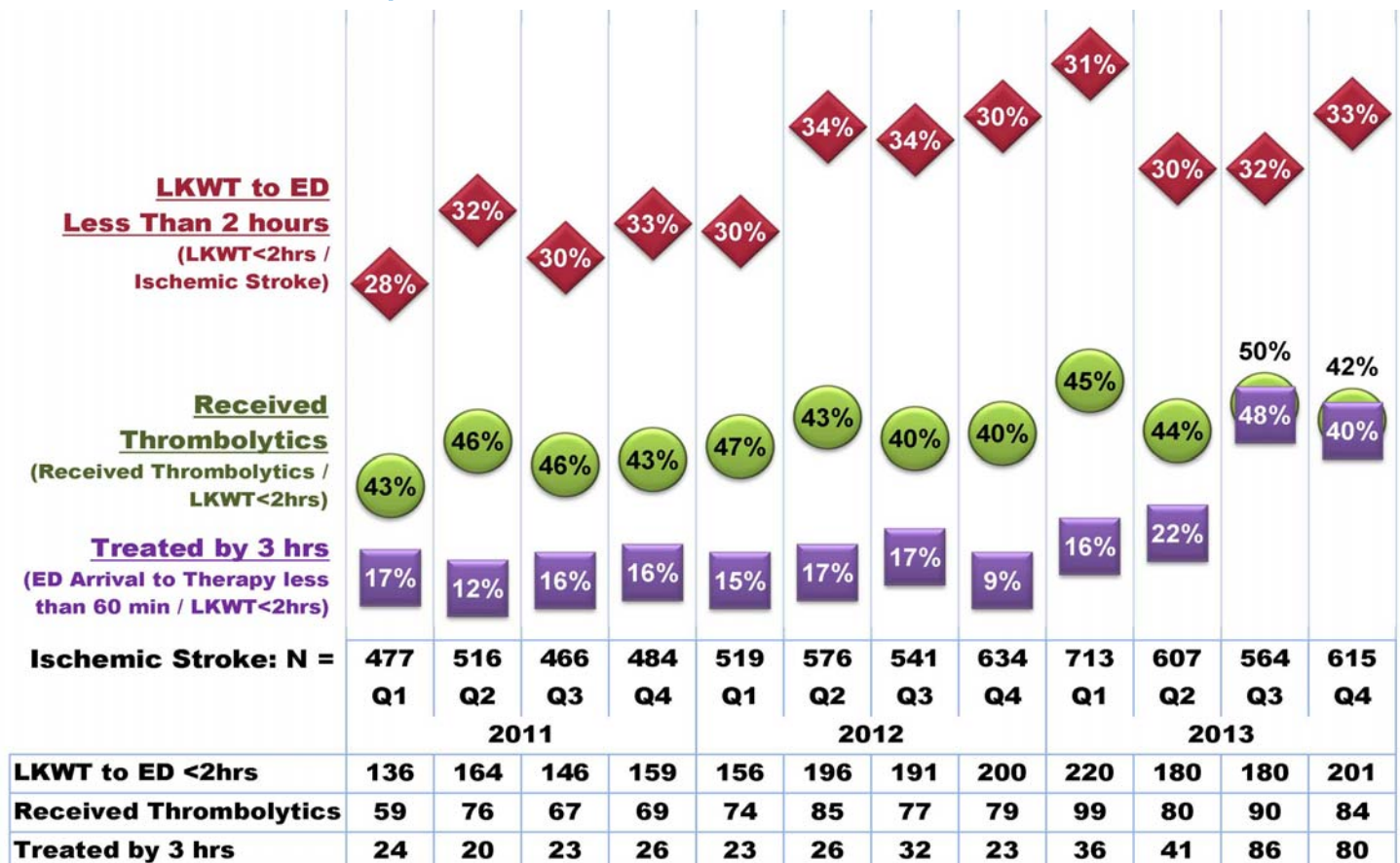
Note: 185 patients were transported to out of County hospitals



## Ischemic Stroke: Median Times (CY 2013)



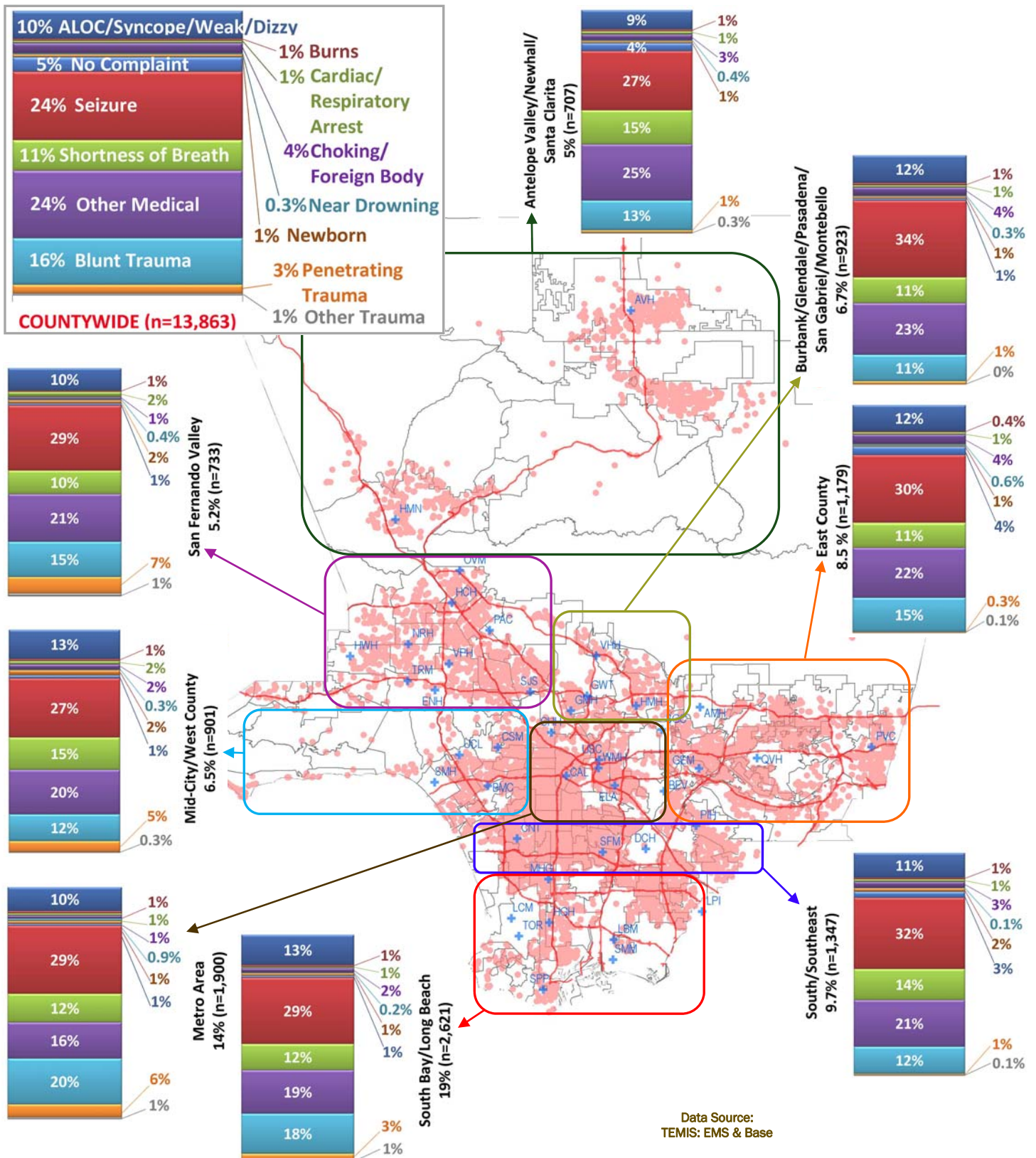
## EMS Stroke Transport: Ischemic Strokes



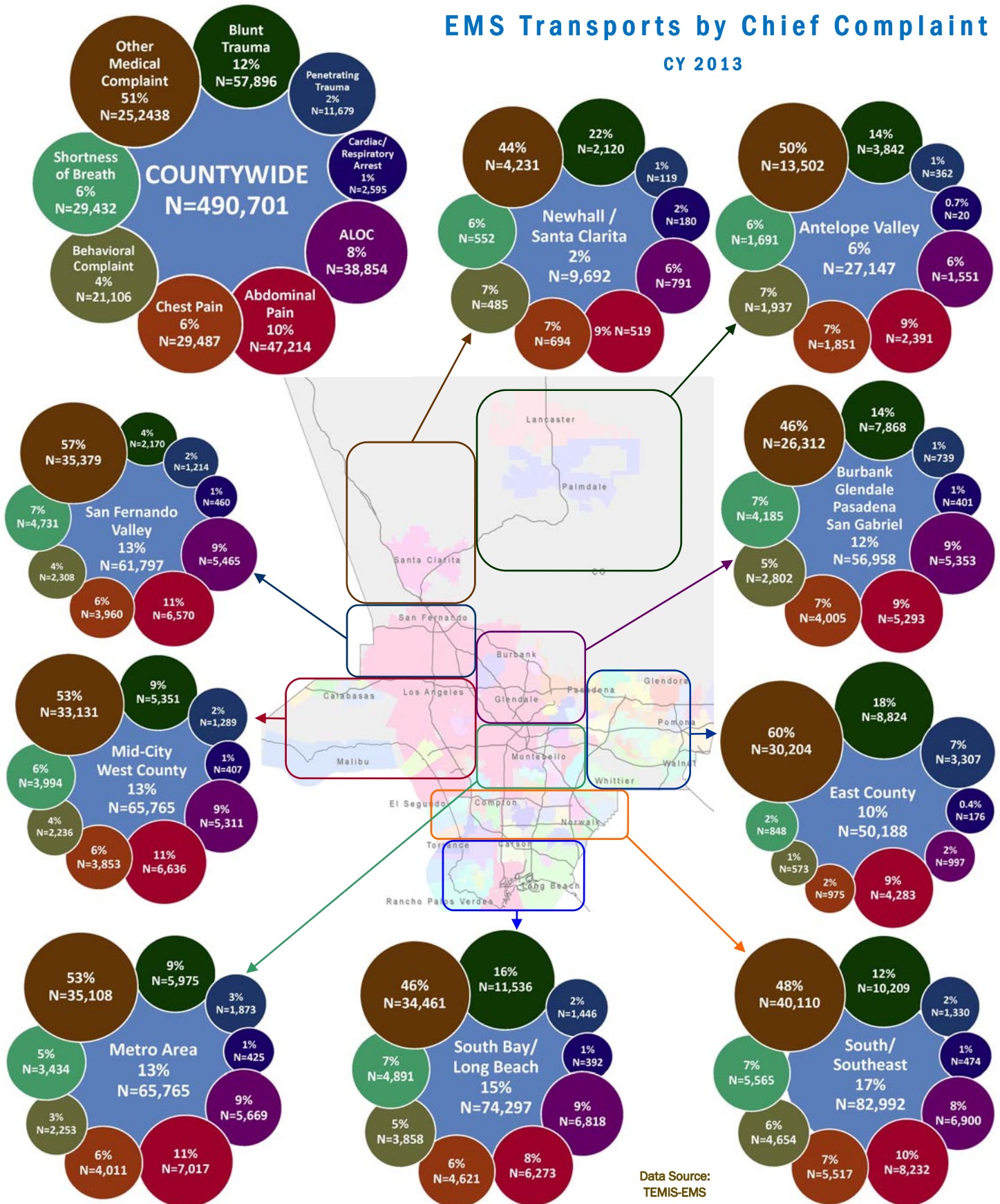
LKWT = Last Known Well Time



## Chief Complaints of EMS Pediatric Transports: 14 years old and younger (cy 2013)



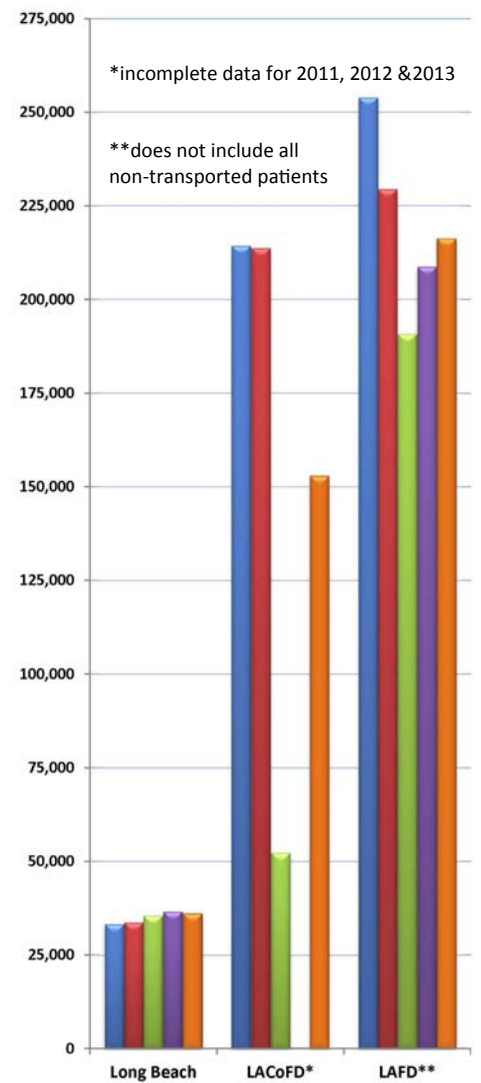
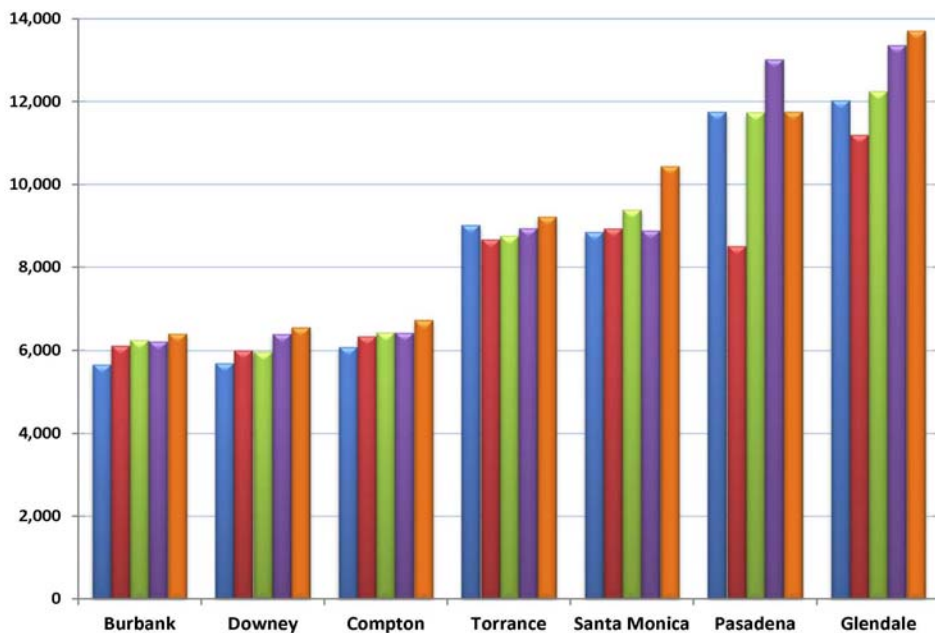
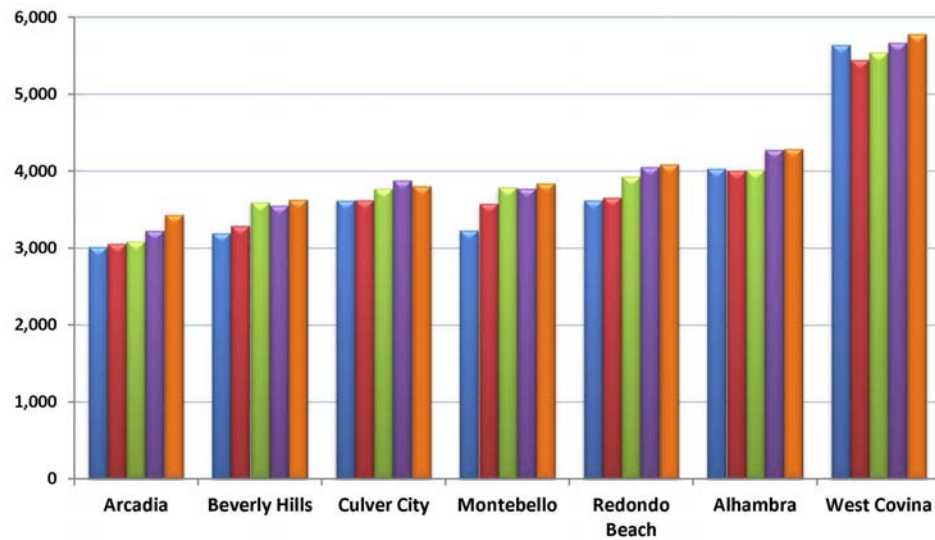
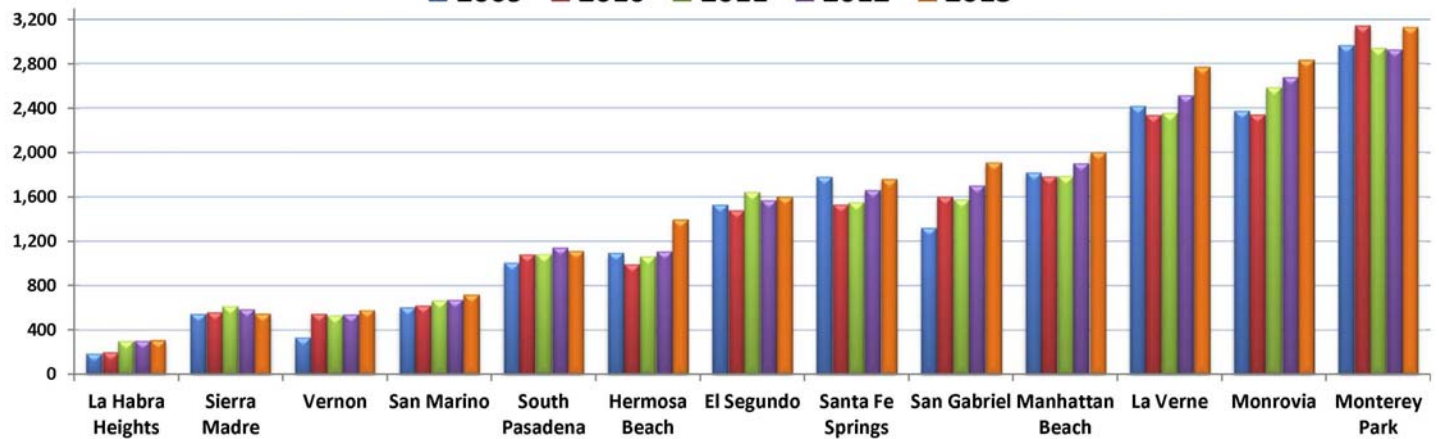
## EMS Transports by Chief Complaint CY 2013





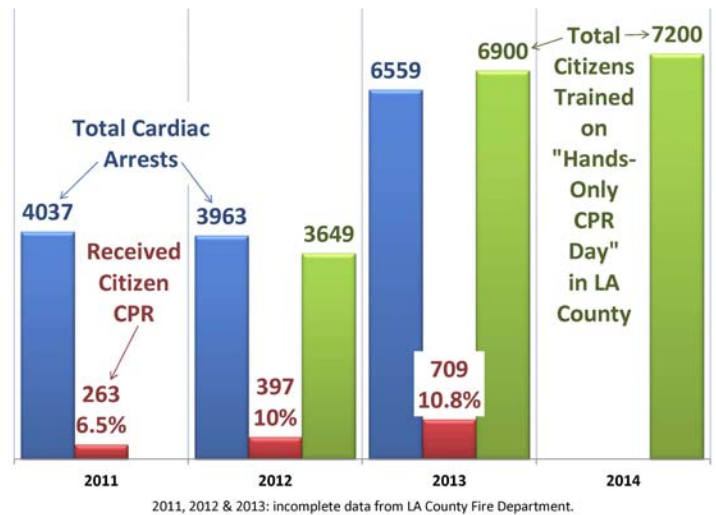
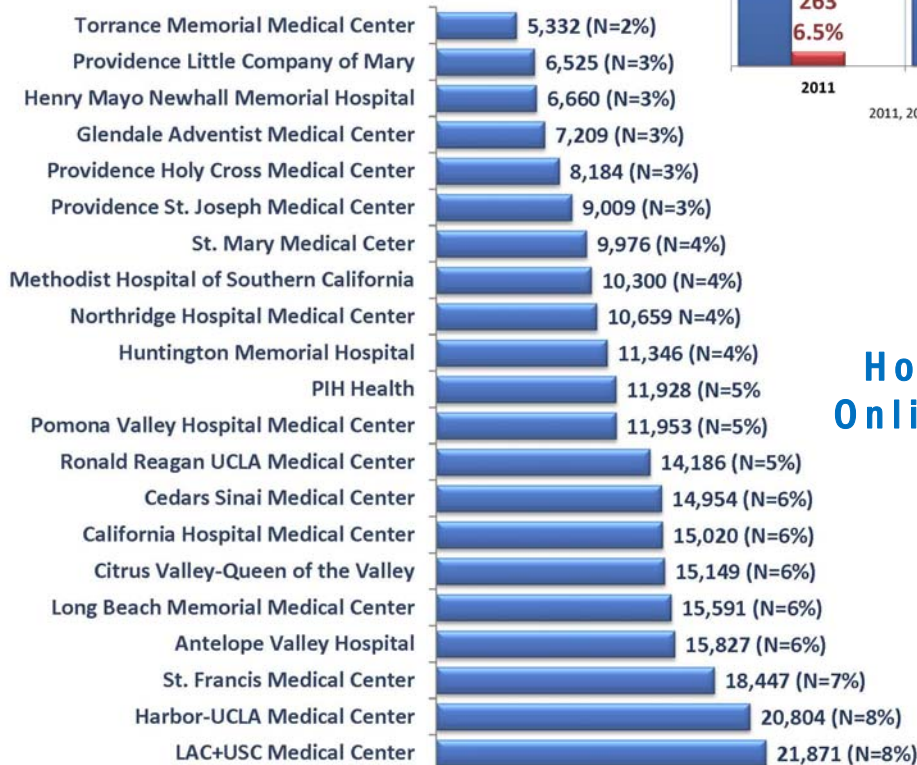
## EMS Responses by 9-1-1 Jurisdictional Provider Agency (CY 2013)

■ 2009 ■ 2010 ■ 2011 ■ 2012 ■ 2013



Data Source:  
TEMIS-EMS

## Citizen (Bystander) Cardiopulmonary Resuscitation (CPR)



## Paramedic Base Hospital Contact for Online Medical Control

**N=206,930**

**CY 2013**

Data Source: TEMIS-EMS & BASE



**EMS AGENCY**



*To ensure timely, compassionate, and quality emergency and disaster medical services.*

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For data request please complete and submit the Data Request Form at [http://ems.dhs.lacounty.gov/dhs/cms1\\_207416.pdf](http://ems.dhs.lacounty.gov/dhs/cms1_207416.pdf)